

# Y-12ERS URGED TO CAST VOTES IN IMPORTANT ELECTION NOVEMBER 8

## Time Off To Be Given When Needed To Vote

One of the most important national elections in years will be held next Tuesday, November 8. As a duty to their nation and to themselves, all Y-12ers are strongly urged to exercise their sacred privilege of casting ballots for candidates of their choice in every race to be decided at the polls. Recognizing the responsibility of Y-12ers to vote next Tuesday, the Company will grant, as usual, time off to employees

who need such leave to cast their ballots.

### Most Can Vote On Own Time

Most Y-12ers live in Anderson, Knox and Roane Counties will be able to vote on their off-hours. Those living in other counties who need time off will be given up to a maximum of three hours without loss of pay. This time off will have to be cleared with supervision in advance.

A plant wide bulletin is being issued today giving polling hours in Anderson, Knox, and Roane Counties, as well as Loudon, Blount, Monroe, Morgan, Camp-



bell, McMinn, Sevier, Meigs, and Cumberland—the latter county being on Central Standard Time. Indications are that this will be the closest national election in years. This should remove the most often heard complaint against voting of "what difference is only one vote going to

make?" There have been many cases in history where one vote could have made a difference.

### One Vote Is Important

President Truman could not have won the election in 1948 if he had not carried Ohio and California, and he carried both these states with less than one vote per precinct. In that same year, Lyndon Johnson won his senatorial race in Texas by only 87 votes. Robert Taft was elected to the United States Senate in 1944 by less than one vote per precinct in Ohio. One vote in the United States Congress saved the Selec-

## Morse G. Dial Stresses Importance Of Ballot

tive Service Act only six months before Pearl Harbor. One electoral vote put Rutherford B. Hayes in the White House. The importance of one vote is the vital strength of a democracy.

The United States counted only 60.4 per cent of its eligible voters in the 1956 election, and this was one of the largest turnouts of votes in history. This is not very favorable when compared to Australia's 95 per cent (there is an equivalent to a \$5 fine for NOT voting in that country). France, Turkey, West Germany, Greece, Indonesia, Israel, Denmark and Korea all voted from 80 to 90 per cent of all eligible voters.

**Dial Cites Unsettled World**  
In a letter dated August 18, 1960, Morse G. Dial, chairman of Union Carbide Corporation, sent the following letter to the homes of all UCC employees:

"You are well aware, I am sure, of the present unsettled world conditions which combine with domestic problems to make this one of the most critical periods in the history of this country.

"The growth which has made this nation one of the leading powers has come about through the interest and determination of the American people in preserving their form of government. Our present strength can be maintained only if all of our citizens concern themselves with preserving the liberties we presently enjoy.

"Elections will take place this fall, and I hope you will take an active interest in the selection of those individuals who will be elected to control the operation of our government at local, state, and national levels. We Americans have the privilege of making our own personal choice as to which candidates we wish to support. I urge you to exercise this privilege, to vote for your candidates, to work for them, and to contribute funds to support the furtherance of their campaigns."

On next Tuesday, vote for the candidates of your choice, but **VOTE**. The vote that never gets to the polls never gets counted!



# THE BULLETIN

A NEWSPAPER BY AND FOR Y-12 EMPLOYEES OF UNION CARBIDE NUCLEAR COMPANY  
DIVISION OF UNION CARBIDE CORPORATION

VOL. 14 — NO. 44

OAK RIDGE, TENNESSEE

Wednesday, November 2, 1960

## UCC'S ATOMIC ENERGY EXHIBIT IS NEWEST N. Y. 'SHOW'



THE NEWLY COMPLETED UNION CARBIDE BUILDING SHINES LIKE A TORCH in the New York City night skyline. Silhouettes of the Chrysler Building, far left; Grand Central Station, center with ornate cupola; and General Electric Building, far right with floodlit top; are recognizable to New York experts. The new 52-story UCC Building is on Park Ave.

## Dial, McCone Open Union Carbide Display

### Thousands Visit New Corporation Building

The newest attraction on Park Ave., New York City, is the "Atomic Energy In Action" exhibit by Union Carbide Corporation. The exhibit occupies the front lobby on the second floor of the new 52-story Union Carbide Building at 270 Park Ave., and was officially opened to the public last Thursday, October 27. It was viewed by thousands of sightseers to gain a better understanding of the field of atomic energy.

John A. McCone, chairman of the Atomic Energy Commission;

### ESPECIAL NEW YORK TIMES UCC SUPPLEMENT GOING TO ALL EMPLOYEES

An especial 24-page supplement section of The New York Times in the October 30 edition of the newspaper, was devoted to Union Carbide Corporation. The supplement highlights Union Carbide's new "Atomic Energy In Action" exhibit, which was opened October 27. The supplement also covers the Corporation history, production and research facilities. The supplement will be distributed to all Union Carbide Corporation employees and stockholders.

and Morse G. Dial, chairman of Union Carbide Corporation; opened the exhibit. Both speakers cited the need for informing and educating the American public about the peaceful uses of atomic energy.

Occupying block-long space, the exhibit contains the world's largest operating model of a nuclear research reactor and what is estimated to be the largest working model of a uranium atom.

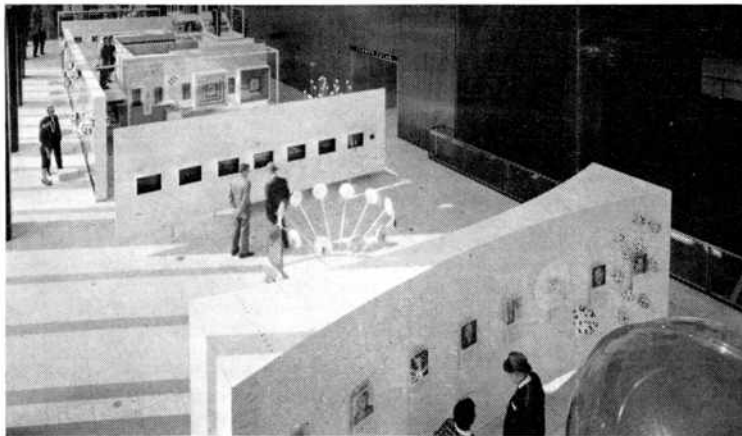
### Chain Reaction Depicted

As noted by first-day visitors, one of the display's highlights is a 60-foot-long mural, which, by flashing lights and changing colors, depicts what happens when a chain reaction of splitting atoms takes place. Blending graphics and animation, the display traces the history of the atom from 500 B.C. up to present day peaceful uses of atomic energy.

In his talk, Chairman Dial said that today's rate of scientific progress made it more than ever imperative that each American have a general understanding of this area of general knowledge.

Referring to Union Carbide's

Continued on Page 4



"ATOMIC ENERGY IN ACTION" is displayed on the lobby floor of the new Union Carbide Building in New York. The exhibit includes a model depicting the structure of the Uranium-235 atom, a full-size model of an atomic research reactor and an animated mural of a nuclear chain reaction.

## Wife Of Y-12er Completes Civil Defense Training

Mrs. Ruth Lewis, wife of Jesse Lewis, of the Y-12 Sunflower Shop and a full-time secretary for the Oak Ridge Civil Defense organization, has just completed a training course in "Elements of Civil Defense and Defense Mobilization." The course was taken by Mrs. Lewis at the Civil Defense Mobilization Training and Education Staff College of the national Civil Defense Administration at Battle Creek, Mich. Objectives of the course include presentation in broad terms of potential enemy capabilities and intentions and situations to be expected in total war.



WILL BURTIN, LEFT, designer of the "Atomic Energy In Action" display in the new Union Carbide Building in New York, discusses the exhibit with Morse G. Dial, Chairman of UCC. The exhibit was opened to the public October 27.

## Property Sales Sets Four Dates For Saturday Patrons

For the convenience of Y-12ers seeking bargains at retail sales of used government property disposed of through the Union Carbide Nuclear Company Property Sales Department, the department has set four Saturdays in November and December for such sales. The dates are November 5 and 19 and December 3 and 17. On these days the Property Sales warehouse on River Road near the old Elza Gate will be open from 8 a.m. to 4 p.m.

Usually offered for sale on such days are cabinets, tables, miscellaneous electric and electronic items, doors, windows, scrap rubber and other articles.

## AEC Employees In Ridge Resume Regular Work Hours

Y-12 employees having business with the Atomic Energy Commission are reminded that AEC employees in Oak Ridge have resumed regular working hours—from 8:15 a.m. to 5 p.m. The change came with the expiration of Daylight Saving Time at midnight, Sunday, October 23. When the AEC Washington office went on Daylight Time last Spring, Oak Ridge hours were changed to 7:45 a.m. to 4:30 p.m. to bring the Oak Ridge work day hours into closer conformity with the Washington schedule.

## AWS And SNT Groups Set Joint Meeting November 15

The Northeast Tennessee Section of the American Welding Society and the Oak Ridge Chapter of the Society for Nondestructive Testing will hold a joint technical meeting on Tuesday night, November 15. The meeting will be at the Oak Terrace with a smorgasbord dinner and social hour at 6:30 o'clock preceding the meeting.

Speaker for the session will be John F. Battema, of Phillips Electronic Instruments Co., Mt. Vernon, N. Y. He will talk on the use of nondestructive test methods in the welding industry. All members of both groups are urged to attend the meeting and visitors are welcome. Y-12ers wishing to make reservations for the gathering may obtain them from H. M. Payne, plant phone 7-8265, or V. C. Jackson, plant phone 7-8409.

## SAFETY SCOREBOARD

The Y-12 Plant Has  
Operated  
13 Days Or  
409,000 Man-Hours  
(Unofficial Estimate)  
Without A Disabling  
Injury  
Through October 30  
Phone 7755  
For Daily Report  
On Accident-Free Hours



# The Bulletin

Published Weekly By And For  
Y-12 Employees Of  
UNION CARBIDE  
NUCLEAR COMPANY  
Division Of  
UNION CARBIDE CORPORATION

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## Florida Professor Will Address ACS

### Dr. Butler To Speak At UT Next Tuesday

Dr. George B. Butler, professor of chemistry at the University of Florida, will discuss new research methods being applied to high polymers at a meeting of the East Tennessee Section of the American Chemical Society next Tuesday night, November 8. The meeting will be at 8 o'clock at Dabny Hall, University of Tennessee, Knoxville, and will be preceded by a dinner for the speaker at 6:30 o'clock at the UT Faculty Club.

New and unusual catalysts for polymerization processes and studies of stereo regularity of polymers and methods for controlling this important characteristic that have resulted in significant findings will be presented by Dr. Butler.

Dr. Butler was born in Liberty, Miss., in 1916 and graduated with especial distinction from Mississippi College in 1938. He received his Ph.D. degree from the University of North Carolina in 1942. After four years as a research chemist with the Rohm and Haas Co., Philadelphia, Pa., he joined the University of Florida faculty. He has been active in many ACS affairs.



Get well wishes are extended to the following Y-12 employees who were patients in the Oak Ridge Hospital last week:

Donald J. Wood, C. C. Parsons and Bill Hackett, Research Services; George S. Pollett, Harvey J. Ballew and S. W. Kesterson, Guard; H. A. Tabe, Chemical; H. C. Giles and S. M. Thompson, Area Five Maintenance; K. N. Andrews, Chemistry Development; J. C. Jordan, Production Inspection; Sidney B. Holder, Metallurgical Development; Harvey H. Sansing, Machine Maintenance; Roy Sampsel, Process Maintenance; John R. MacKay, Beta Four Assembly and Forming.

## Maintenance Division Sets Christmas Party December 9

The first of several anticipated Y-12 divisional Christmas Parties of the season has been announced for the Maintenance Division. It will be presented on Friday night, December 9, at the Oak Ridge Country Club with the program including a dinner and dance. Dinner will be served at 7:30 o'clock and dancing will be presented from 9 p.m. to 1 a.m. Music will be provided by the Dave Blessing Orchestra, the leader being a Y-12er in Research Services. Tickets for the Maintenance Division Christmas Party will be \$3.50 per person to cover both the dinner and the dance. Door prizes will be awarded.



The Old Colyum Conductor is a prime target for so-called "sucker mail" from many sources—offering for sale such varied items as engraving, dictionaries, joke books, special art, magazine back covers, cartoons on every conceivable subject and many other items. So far the CC has successfully dodged such appeals and Carbide's waste paper problem has grown. However, somebody has been playing dirty pool. The other day the CC's SS (Sweet Spouse) received solicitation through the mail from some rifle or gun shooting organization offering to sell her such merchandise at cut rates and train her in handling said weapons, or something like that.

That was the last straw. Heck, that gal can shoot—and throw—plenty straight now. She don't need no expert training.

So—after notifying the originators of such "junk mail" of the futility of such stuff—the CC will begin another round of plowing up—and under—the Confidential items of the week—

## MAINTENANCE

Research Services extends its sincere condolences to R. T. Huffman, whose mother died October 24 at Canton, N. C. He attended funeral services there last week.

D. B. Blackburn is welcomed back after an extended illness. Get well wishes are rushed to C. C. Parson, in Oak Ridge Hospital; and B. C. Harrington, in St. Mary's Hospital, Knoxville. Also to L. K. Flynn, Charlotte Smith, D. J. Wood, J. C. Ballard, F. J. Salts, C. C. Bowman and D. F. Leach. Hubert Tripp went hunting on his vacation. H. L. Simmons proudly reports the arrival of a new granddaughter, weighing in at eight pounds. Add get well wishes—to William Vann, son of L. C. Vann, in Presbyterian Hospital, Knoxville.

## INDUSTRIAL RELATIONS

The Cafeteria welcomes Rosa Lowe back after a recent illness.

D. H. Treece is off for a couple of weeks hunting and fishing. K. D. Patterson spent last week at his home in Morristown while vacationing. Irene Bryan entered University Hospital Sunday for surgery.

From the Boys In Blue And Gray of the Fire and Guard Department comes word that Guard J. A. "Cornbread" Margrave was welcomed back last week after a siege of surgery. Get well wishes go to Guard G. S. Pollitt in Oak Ridge Hospital. Likewise to the wife of Guard D. I. Davis—she is ill in St. Mary's Hospital, Knoxville. So with no baby pictures or fish stories, Reporter Liz Campbell signs off.

## SHIFT SUPERINTENDENTS AND UTILITIES

This here now picture is of John L. Clowers, II, grandson of Eugene Clowers, Utilities. The Proud Pop is Airman John L. (Jackie) Clowers, stationed at Clark Air Force Base in the Philippine Islands. The Y-12er hasn't seen the young 'un yet, but a rip-roaring Christmas is being planned for the Clowers' home when little Johnny II will come marching home. Vacationers this week include J. D. Tolliver visiting relatives in Columbus, Ga., and Williamsburg, Ky.; E. F. Sosby looking up kin folks in Atlanta and Toccoa, Ga., and E. B. Cox just staying around home.

During their long break C. R. Jarvis, J. A. Braden and A. S. Howell went deer hunting.



John L., II

Quite a bit of travelling on a vacation trip is being done by J. F. May, Steam Plant, who will be visiting in Atlanta, Birmingham and points in North Carolina.

Believe it or not, the PSS Travelling Man, Finley Creigh, B Shift bossman, didn't go to Kentucky over the past week end.

## FINANCE AND MATERIALS

A vacation in chilly Chicago, Ill., is being taken by E. W. Cook, Engineering Services, and his family.

Well, that's settled. Bill Hoppe, Accounting and Budget, doubtless aided, abetted and guided by his spouse, finally has announced that the new son in the family has been named Gregory Charles Hoppe. Bill was vacationing last week to get acquainted with his newest tax exemption.

## ENGINEERING

In the Union Carbide Nuclear Company plant publication from 'way out in Colorado recently was published a picture of former Y-12er, Walt Lovell, who transferred from here to the Grand Junction UCNC Plant in April of this year. Walt was a Y-12er in Process Design from May 26, 1952, his employment date, until his transfer. His friends will be glad to know he is surviving the rigors of the Wild West.

Mechanical Engineering welcomed Bill Rogers, from Kingsport, into the Bldg. 9766 group last week. Mark Kellerman week ended in Memphis.

Snazzy introduction of a record by a nearby disc jockey—

"Here's the lament of an extinct volcano;

"Lava, Come Back To Me."

## MECHANICAL OPERATIONS

Rolling and Forming's Stockton Rucker and his wife are vacationing in Colorado and points West after he finished an official job at the Rocky Flats installation of the Atomic Energy Commission.

The Beta Four Assembly and Forming Area have welcomed a number of familiar faces back to the fold, including G. A. Adams, G. H. Steincipher, F. M. Barnes, C. W. Walker, E. C. Alred, J. O. Parks, H. L. Smith, C. S. Jones, R. E. George, H. H. Clark, H. C. Boyd and F. J. Hall. J. R. MacKay is at home after spending several days in the Oak Ridge Hospital and get well wishes are wafted his way. M. L. Loggans has returned after being hospitalized for more than a week, receiving a warm welcome.

The General Machine Shop hung out the welcome sign last week for newcomer C. H. Hall. Floyd Ludwig had his son, Floyd, Jr., home from the Navy on leave over a recent week end. Young Ludwig's engagement to Miss Jessie Tallman, of Knoxville, was announced at that time. Jane Wright was among the spectators at the UT-Chattanooga football game. Lots of get well wishes are being distributed by Shoppers, including Frank E. Shipley, Jr., and L. E. Abrams in St. Mary's Hospital, Knoxville.

Also to R. E. Lively, L. C. Watson and W. F. Ragsdale, recuperating at home after hospitalization. Condolences are extended to R. L. McIlwain, whose grandmother, Mrs. Rachel Pugh, died October 26 in Millry, Ala. Like wise to O. G. Warren, whose mother died in Jefferson City, Tenn., the same day. Lyle Lankford and the missus are looking up two of his brothers while vacationing—one lives in Norfolk, Va., and the other in Plymouth, N. C. O. M. Freels and Harley Law are believed taking it easy at home in Knoxville. Kenneth Pruitt is spending

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WEIRD AND WILD CHARACTERS SUCH AS THESE roamed the Woodland Section of Oak Ridge Halloween night. Parents of most of the youngsters are Carbide employees—including two sons and a charming daughter of Ward Bandy, of the ORNL Photographic Section in the Y-12 Plant Area who does a lot of picture making for The Bulletin. Starting with "Sherlock Holmes" at left—portrayed by Dan Bandy, 8, and proceeding clockwise around the circle, the others are Danny Bates, Tom Bandy, 6, Larry Ellis, Dennis Case, Claire Bandy, 2, and Patty Ellis. The picture was made at a preview "dress rehearsal" of the gathering.

## Sales Up, Income Down, Union Carbide Reports

### First Nine Months Of Year Sets Record

Sales of Union Carbide Corporation during the first nine months of 1960 were the highest for any nine-month period in the Corporation's history, according to Morse G. Dial, chairman and chief executive officer. Sales for the nine-month period amounted to \$1,157,512,000, compared with sales of \$1,120,986,000 a year ago. Net income for the first nine months amounted to \$117,427,000, or \$3.90 per share, compared with net income of \$126,999,000, or \$4.22 per share, for the first nine months of 1959.

Sales for the third quarter of 1960 were \$385,869,000, as compared with \$376,341,000 in the second quarter of the year and \$360,840,000 in the third quarter of 1959. Net income for the third quarter of 1960 amounted to some \$36,235,000, or \$1.20 per share, compared with net income of \$39,100,000, or \$1.30 per share, earned in the second quarter of the year and \$36,557,000, or \$1.21 per share, earned in the third quarter of 1959.

In reviewing operations, Dial emphasized that the Corporation is continuing policies that will contribute to long term growth, although some of these policies may have a temporary depressing effect upon earnings. Examples include increases in expenditures for research and development in 1960; the Corporation's policy of taking the maximum depreciation permitted for tax purposes; substantially increased outlays for new plants and equipment, which are currently estimated at something over \$200,000,000 for 1960 as compared to \$136,000,000 in 1959. The Corporation's expansion program is concentrated largely in the products for which demand continues in a strong underlying growth trend.

Every Y-12er has an individual responsibility for enforcing security.



"Let me tell you about some of the other employee benefits—"



THIS BEWITCHING WITCH enchanted all she encountered in the Woodland Section of Oak Ridge as she roamed on Halloween night. She is Claire Bandy, just two years old, daughter of Ward Bandy, ORNL photographer in the Y-12 Plant Area. He made these pictures and does much of the photography for The Bulletin.

## Y-12ers With 15, 10 Years Company Service

Congratulations to the Y-12 employees listed below who will complete 15 and 10 years of Company Service within the next few days:

### 15 YEARS

John W. Cantrell, General Machine Shop, November 5.

Andy P. Phillips, Z Area, November 5.

Percy C. LaRue, General Machine Shop, November 7.

### 10 YEARS

William M. Higgins, Buildings and Grounds, November 2.

Tripp S. Swindle, TW Shop, November 3.

J. P. Ross, Jr., Research Services, November 6.

Newton E. Hamby, Production Inspection, November 7.

Elmer L. Soard, Area Five Maintenance, November 7.

Joseph L. Powell, Research Services, November 7.

Bertha M. Hall, Janitors, November 8.

Robert McKinney, Product Processing, November 8.

In the 10-Year Company Service listings last week Clarence Jarnagin was reported to be in the Z Area Department. He is with Product Processing.

Goffred F. Moretto, Buildings and Grounds, was omitted from the 10-Year Company Service list. His anniversary date was October 11, 1950.



## Ruby O'Kain, Jago Top Topper Win

### Five-Point Edge Held As Good Scores Made

Led by Ruby O'Kain and Bob Jago, the Toppers nipped the Nip and Tucks in the Mixed League bowling activities last week to maintain their five-point margin in the standings. In a clawing battle of felines, the Cool Cats chilled the Alley Cats for a four-point whitewash victory to take over second place. The Goofers, cellar dwellers most of the season, almost vacated the last spot by blanking the Scrappers for four and the Phantoms played Pin Plasters for three.

The comely Mrs. O'Kain swept the boards in individual scoring, as did her teammates. She had a 189 scratch game, boosted to 217 with handicap; a 515 scratch and 599 handicap series. On the masculine side Bob Jago almost duplicated her feat but had to settle for ties in two categories. He had a 221, 244, 600 and 669 across the board. Harold Ratjen, Phantoms, bagged a 244 handicap game and Joe Dunlap, Pin Plasters, a 600 scratch series. The Toppers' team scores were 711, 834, 2090 and 2457.

League standing follows:

Team	W	L
Toppers	24	8
Cool Cats	19	13
Phantoms	16	16
Pin Plasters	16	16
Alley Cats	16	16
Nip and Tucks	13	19
Scrappers	12	20
Goofers	12	20

## Sharpshooters Top Y-12 Pistoleers

With two matches out of the way, the Sharpshooters team with a record of four points won and none lost stands at the head of the standings in the Y-12 Pistol League. Interest in the league is at a high level and four teams have been formed with four members each.

In the first round of matches the Sharpshooters downed the Marksmen in both scratch and handicap firing. For the victors Ed Bailey and E. C. Williams were top scratch and handicap scorers with 258 and 251 scratch and 289.130 and 285.325, respectively. The team's totals were 509 and 574.455. For the Marksmen, Tom Swindell had the top scratch mark of 235 for tops and was second in handicap with 280.533. O. C. Beatty was second in scratch with 187 and first in handicap with 280.533. Team totals were 422 and 561.493.

The Experts took two points from the Masters, 513 to 484 and 578.704 to 565.010. K. A. Schumaker led the victors with 278 and 294.005 and J. V. Ledbetter was second with 235 and 284.699. For the Masters, Dave Alford had the best scratch score of 261, trailed by J. H. Shoemaker at 223. In handicap firing Clyde Beeler led the Masters with 284.923 and Alford was second with 280.087.

The Sharpshooters maintained their winning streak against the Masters in the second round by the close margins of 517 to 501 and 575.850 to 574.925. Bailey was again high gun for the winners with 261 scratch and 288.768 handicap. Williams was second with 256 and 287.082. Alford was best for the Masters with 273 and 288.674 and 288 and Beeler second with 228 and 286.241.

The Marksmen and Experts broke even in the second round. The Experts were on top in scratch firing by 501 to 460. Schumaker had 257 and Ledbetter 244 for the Experts against 238 for Swindell and 222 for Beatty for the Marksmen. In handicap firing the positions were reversed with the Marksmen winning by a score of 572.453 to 570.129. Beatty was best handicap scorer for the Marksmen with 288.238 and



THE MARKERS TEAM OF THE CLASSIC LEAGUE OF Y-12 BOWLERS has been making a fine record in the speedy league this season. Standing from left are J. P. Smith, Bob Jago, Don Troutman and John H. "Tudor" Boyd, Jr. Seated is Capt. Jim Bartholomew. Boyd set an all-time Oak Ridge record October 21 by rolling a sizzling 737 scratch series and included in the achievement was a 287 scratch game, just two frames away from a perfect 300 score.

## Y-12 Basketeers Eager For Meeting Set November 10

Y-12 basketeers apparently are straining at the leash to begin activities for the winter season, if telephone calls to the Recreation Office for information are any indication. Several groups and individuals have expressed interest in entering teams in the competition and joining teams already operating.

As a result, a large attendance is expected at an organizational meeting set for Thursday night, November 10. The meeting will be at 7 o'clock in the quarters of the Carbide Camera Club in the Y-12 North Portal building. All teams playing in the Carbide Basketball League last season are urged to have representatives on hand.

Any team wanting to make reservations for gymnasium space for practice sessions or further information on the basketball situation are asked to communicate with the Y-12 Recreation Department, Room 149, Bldg. 9704-2, plant phones 7100 and 7109.

## November 12 Date For A Shift Shoot

All A Shift Y-12ers, their families and other Y-12 employees and families are invited to attend a turkey shoot scheduled by the A Shift Recreation Committee for Saturday, November 12. The shoot will be held at the old Oliver Springs Airport, beginning at 9 a.m.

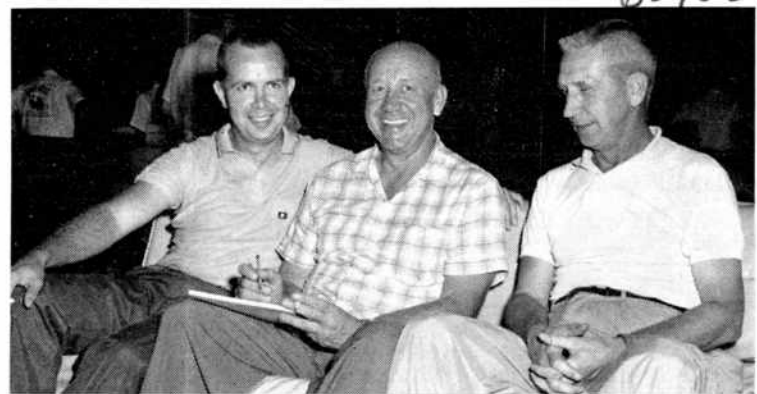
Turkeys and hams will be awarded high scorers in the competition. Shotguns and .22 calibre rifles may be used. Free coffee and doughnuts will be served.

Swindell second at 284.215. Ledbetter had 286.284 and Schumaker 283.845 for the losers.

Firing for the Sharpshooters this season are J. H. Shoemaker, C. C. Beeler, Newt Hamby and Dave Alford. Members of the Experts are J. V. Ledbetter, J. C. Clark, W. A. Less and K. A. Schumaker. On the Marksmen are H. A. Lasater, O. C. Beatty, Tommy Swindell and T. J. Bush. With the Masters are F. S. Patton, M. L. Cooper, Ed Bailey and E. C. Williams.

League standing after two rounds of firing are:

Team	W	L
Sharpshooters	4	0
Experts	3	1
Marksmen	1	3
Masters	0	4



VETERAN Y-12 BOWLERS FROM THE STAFF OF OFFICIALS of the Classic League this season. From left are Sewell Brown, vice president; George Riddle, president; and Roy Roberts, secretary-treasurer. Brown and Riddle are serving their second consecutive year in their posts.

## Welfare-Bailey Lead Skeet Loop

With Fred Welfare breaking 23 out of 25 targets in the Y-12 Skeet League Sunday, October 23, the Welfare-Bailey team took over the loop lead with a score of 77 out of a possible 100. Hal Tunnell and Joe Dunlap were close behind with 75.

The Tunnell-Dunlap team had the best individual scratch team score of 33 out of 50 for the shooting October 23 while the McNabb-Montgomery duo posted the top handicap score of 44. In addition to Welfare's leading individual scratch score, four shooters ended in a tie for low handicap scores of 25. They were Tunnell, Welfare, Bob White and Jim Turner.

The league will hold its next firing session next Sunday, November 7.

League standing follows:

Team	Pts.
Welfare-Bailey	77
Tunnell-Dunlap	75
Case-Hamby	75
McNabb-Montgomery	67
Turner-Patton	65
Less-Landry	62
*White-Brewster	51
*Patterson-Murphy	33
*Hopkins-Kennedy	26
*Peterson-Cowen	23
*Incomplete results	

## Y-12, Independent Riflemen Divide

The Y-12 Rifle team broke even with the Oak Ridge Independents in their October 22 match, the Y-12 team making a 1396 to 1316 scratch margin but losing by 1443.089 to 1436.988 in handicap firing. Brady led the winners with a scratch score of 286 and Blay had the top handicap tally of 290.479.

## Rippers Still Hold Lead In Classic

### Sportsmen And Rebels Close In On Top Spot

Despite a two-point tie with the Markers, the Rippers maintained their lead in the Classic League of Y-12 bowlers last week.

The Sportsmen and Rebels took three points from the All Stars and Playboys, respectively. Whitewash wins of four points each were posted by the Wolves over the Has Beens and the Cubs over the Smelters. In other tilts the Tigers took three from the Eight Balls, the Swingsters beat the Bumpers and the Screwballs topped the Wasps by similar scores.

Ripper team members topped all individual scorers. Jay Holzknecht had the top scratch series mark with 619. Wayne Groppe rolled a 236 scratch game and Harold Ratjen recorded a 261 handicap game and 717 series. That enabled the Rippers to wind up with a 3058 handicap series, which was tied by the Wolves.

League standing follows:

Team	W	L
Rippers	24	8
Sportsmen	22	10
Rebels	20	12
Tigers	19	13
Wolves	18 1/2	13 1/2
Markers	18	14
Swingsters	18	14
Has Beens	17	15
Eight Balls	16	16
Cubs	16	16
Screwballs	15 1/2	16 1/2
Playboys	12	20
All Stars	11	21
Wasps	10	22
Bumpers	10	22
Smelters	9	23

## Triumph By IBMs Tightens C Loop

Only the IBMs maple mauling men of the first four teams in the C League of Y-12 bowlers could gain ground in alley activities of October 24. The IBMs took a three-point bite out of the hides of the Beta Fours to gain a tie for second place with the losers in the loop ladder. The two top teams in the parade, the Big Five and C Shift, stood still as both gained even breaks—the Big Five with the Par Busters and C Shift with the Hookers. On other tilts the Hilifers escaped the cellar with a three-point win over the Sunflowers, the Chillers cooled off the Ramblers by the same score to send the losers into a tie with the Hilifers for 10th place and the Alley Cats and SPs sparred to a two-point-each draw.

Raymond Galford, Sunflowers, again was high series scorer for the night with a 599 scratch and 626 handicap tally. Bill Stephens, a teammate, tied Galford for high handicap series score and also tied with Otis Rackley, Alley Cats, for the best scratch game of 226. Rackley had the high handicap game of 249. In team scoring the Alley Cats took most honors with a 967 scratch and 1072 handicap game and 2580 scratch series. The Hilifers' 2950 was high handicap series of the session.

League standing follows:

Team	W	L
Big Five	25	15
C Shift	25	15
Beta Four	23	17
IBMs	23	17
Chillers	21	19
Alley Cats	19	21
Sunflowers	18	22
SPs	18	22
Par Busters	18	22
Ramblers	17	23
Hilifers	17	23
Hookers	16	24

A CONTINUAL  
**SAFETY  
CONTEST**  
*Everybody wins when  
Nobody Loses!*



THIS WHOPPER OF A WALLEYE pike was caught October 13 from Norris Lake by Y-12er Sam Edmonds, of the Stores Department. A waterdog bomber lure was used to land the beast. It is a strong contender for first place in the Y-12 Annual Fishing Contest.

## All-Carbide 'Shoe Tournney Planned

An All-Carbide horseshoe pitching tournament is being planned for devotees of the sport at Oak Ridge National Laboratory, Oak Ridge Gaseous Diffusion Plant and the Y-12 Plant. Arranging details is the Recreation Department of ORNL and all Y-12ers wanting to enter the tournament are asked to communicate with that department at Carbide telephone 6723 or by plant mail.

Competition is planned in both singles and doubles and all entries must be submitted not later than Wednesday, November 9.

Drill sergeant: I suppose the next thing you'll want is a commission.

Recruit: Not me. I'm such a poor shot I'd rather work on a straight salary.



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## Y-12 Air Reservist Captain Finishes Tour At Patrick AFB

### George Oliphant Serves At Missile Test Base

Capt. George W. Oliphant, Head of the Y-12 Research Services Department and a member of the Oak Ridge 9964th Air Reserve Squadron, recently served his annual tour of two weeks active duty at the Air Force Missile Test Center, Air Research and Development Command, Patrick AFB, Fla. Patrick AFB is near Cocoa Beach and Cape Canaveral. Evaluated Missile Test Data.

Captain Oliphant served his tour in the Office of the Directorate of Range Operations. While there, he worked in the Electronic Data Acquisition and Processing Section on the evaluation of data from various missile tests.

The operations and development work at Cape Canaveral is conducted by Pan American World Airways. This parent company occupies the same position there as Union Carbide Nuclear Company does in Oak Ridge. This is the third annual tour that Captain Oliphant has completed at Patrick AFB and, according to Maj. John D. Ogle, Chief, Military Training Division:

"In the event of mobilization, Captain Oliphant would be able to fill any one of a number of positions. During his three tours, he has completed technical projects of immediate value to the Air Force Missile Test Center."

As a result of the extensive technical background of many of the Oak Ridge Air Force Reservists, active duty tours are frequently spent at such research and development centers as Wright-Patterson AFB, Ohio; Eg-



Capt. George W. Oliphant

lin AFB, Fla., Patrick AFB, and Arnold Engineering Center, Tullahoma, Tenn.

#### Held Post Six Years

Until recently, Captain Oliphant had been the Executive and Training Officer in the 9964th Air Reserve Squadron for a period of six years. At the beginning of this academic year, he transferred to the Research and Development Class and was replaced on the Squadron Staff by Capt. Olin B. Ripley.

Captain Oliphant entered service as an aviation cadet at Keesler Field, Miss., December 7, 1952, and was given his wings and commission as a second lieutenant at Columbus, Miss., in June 1944. Following this, he served at many stateside air bases and attended Central Instructors' School at Randolph Field, Tex., and B-24 Transition School at SAAF, in Smyrna, Tenn., before being discharged in November, 1945. Since that time he has been active in the Reserve program. He, his wife, Chris, and their two sons reside in Oak Ridge at 171 LaSalle Road.

## Lucky Five Leaps To Bush Loop Lead

The Lucky Five leaped to a commanding lead in the Bush League of Y-12 pin pounders October 24 by taking three points from the Rodders. The Balls O'Fire, previously tied with the Lucky Five for first place, dropped back under a four-point whitewash defeat at the hands of the Alley Gators. The Hi Balls also took four points from the Rollniks, the Beavers bumped the Rollmasters for three and the Pin Busters and Nine Pins broke even at two points each.

Henry Clayton aided the Alley Gators with their triumph by rolling a 604 scratch and 709 handicap series. In single game scoring R. E. Worley, Pin Busters, came through with a 243 scratch game, boosted to 269 with handicap. The Hi Balls swept all team scoring honors with 879, 1022, 2474 and 2923 across the board.

Team	W	L
Lucky Five	21	7
Balls O' Fire	18	10
Pin Busters	18	10
Rollmasters	16	12
Alley Gators	16	12
Hi Balls	15	13
Beavers	12	16
Rodders	10	18
Rollniks	8	20
Nine Pins	6	22



Continued from Page 2  
ing a week at home in Oak Ridge. . . J. P. Young is visiting his granddaughter in New Jersey.

The Beta Four Heavy Machine Shop extends sympathy to W. S. Minge, whose father-in-law, Alonzo Wallace, died October 21. . . Because of some building alterations in the Beta Four structure, some of the folks working in the Shop office are looking around for Eskimo parkas—their theme song being "Baby, It's Cold Outside—And Inside, Too."

#### TECHNICAL

Physical Testing reports that Earl Price and his wife, Rose, vacationed at Hattiesburg, Miss., where they attended the Mississippi-Southern and North Carolina State football game, the homecoming for the Southerners.

Metallurgical Development extends condolences to H. L. Wigginton, whose father, Fletcher H. Wigginton, died at his home in Glen, Miss., on October 25 following a long illness. Another son, A. W., is in the Product Processing Department of the Chemical Operations Division.

Have you started that Christmas Shopping yet?

## Union Carbide's Exhibit On Atomic Energy Newest Attraction On New York's Park Ave.

Continued From Page 1

nuclear exhibit, Chairman McCone thanked the Corporation for making this contribution toward greater public understanding of the ways in which the atom is being harnessed for the benefit of mankind.

The exhibit measures 160 feet long by 38 feet deep. It took visitors an estimated 10 to 15 minutes to inspect the 20 stations. The display was created by Will Burtin, one of the world's foremost industrial designers.

In another part of the day's program, which also unofficially marked the completion of all major construction on Union Carbide's new world headquarters building, Chairman Dial said that the stainless steel and glass structure would provide the necessary "consolidation" and "room for expansion" the Corporation needed for maximum operating efficiency.

The story of the uranium atom is portrayed as beginning with man's early concept of the atom more than 25 centuries ago. The evolution of scientific thought on the atom is traced through the ages to the present. A major portion of the exhibit shows how uranium is mined and processed and how it is used in atomic reactors to benefit mankind.

#### Working Models Tested

Preliminary studies for the exhibit began more than two years ago. Small working models of major display units were built and thoroughly tested before actual construction began. The mural depicting a chain reaction of splitting atoms is the first ever devised on such a scale, shows how the chain reaction spreads to other atoms by means of high-speed sub-atomic bullets called neutrons. At the start of the cycle, two neutrons are given off from the central atom, and in a spectacular sequence of brilliant flashing lights, the "reaction" spreads until the entire blue field of the mural seems to vibrate with light and color.

The story of the uranium atom begins with a panel tracing the evolution of the concept of the atom—from Democritus in 500 B.C., who defined the atom as the smallest, indivisible part of matter; to Enrico Fermi and his staff who achieved the first sustained chain reaction in 1942.

#### Colorado Plateau Pictured

As visitors continue through the exhibit, a 21-foot panoramic view of the Colorado Plateau sets the stage for the uranium mining and milling section. A large turntable in the center of this section acquaints visitors with the varieties of uranium minerals found there. Colorful transparencies develop the story of uranium ore as it is mined and processed.

How uranium is used in an atomic reactor is illustrated by the exhibit's main feature—a full scale model of a pool type research reactor. This model is patterned after the atomic reactor located at Union Carbide's Nuclear Research Center.

The applications of atomic energy are covered in the last two sections. In the first, which deals with the production and use of radioisotopes, a large art form depicts how they are used in medicine, agriculture, and industry.

#### How Electricity Is Generated

The final section shows how the heat from the chain reaction has been applied to the generation of electricity to light cities. Another panel in this section features the use of a reactor for propulsion.

The new Union Carbide Building represents the most dramatic change in midtown New York's skyline in years.

The "birth" of the stainless steel and glass skyscraper, estimated to be the 10th tallest building in the world, occurred August 16, 1955, when Union Carbide ac-

quired the leasehold for its present building site. Earlier, the corporation had decided it could best achieve maximum working efficiency by consolidating its numerous major operating divisions in one location. Previously, the Corporation's offices had been scattered in 14 different New York locations.

In early 1957 demolition crews started tearing down the Hotel Marguery, the historic Manhattan landmark which had occupied the block bounded by Park and Madison Aves. and 47th and 48th Sts., since 1917.

#### Building 707 Feet Tall

In January, 1958, crews working under the overall supervision of the general contractor, George A. Fuller Co., sank the first of 115 steel columns upon which the building would rest. A little more than a year later, in April 1959, the building was topped out (the building's highest structural member was fixed in place reaching 707 feet above the ground.)

The skyscraper came to life in April when approximately 700 Union Carbide employees became the first occupants among approximately 4,000 UCC employees who now work in the structure.

In August it was announced that 20 tenants had completely leased all space on the 10 rental floors (14-23) of the tower unit and on the Madison Avenue commercial ground floor.

Interior construction on the 49th and 50th floors is expected to be finished early next year. This work will mark the final embellishment of Park Avenue's newest landmark and the latest symbol of the thoroughfare's rising status as America's fastest growing "corporate row."

## Olefins Company Planning New Laboratory Building

Plans for a new laboratory at the new Union Carbide Technical Center in South Charleston, W. Va., have been announced by the UCC Olefins Company. The laboratory is designed to centralize research, development and special instrumentation departments of the Company. These currently are in seven locations in the Institute and South Charleston UCC plants. Although the major portion of the laboratory will be occupied by the Olefins Company, it also will provide facilities for the research department of the UCC Chemicals Company. It is expected that the new laboratory will be completed by 1962.

## Argonne Man Will Speak At Seminar Meet Friday

Gilbert Perlow, of the Argonne National Laboratory, will speak at the seminar session of the Oak Ridge National Laboratory Physics Division on Friday afternoon of this week. The meeting will be at 3:15 o'clock in the auditorium of Bldg. 4500, ORNL. The discussion subject will be "Experiments in FE-57." All Y-12ers interested in the subject are invited to attend the meeting.

## Another 90-Cent Dividend Declared By Union Carbide

Union Carbide's board of directors have declared a quarterly dividend of 90 cents per share on outstanding capital stock of the Corporation, payable December 1, to stockholders of record on November 4. This is the same quarterly dividend as was paid on September 1. Payment of this quarterly dividend on December 1 will make a total of \$3.60 per share paid in 1960. This is the same as was paid in 1959.



Riders wanted from South or West Knoxville to any Portal, H Shift. Stanley Hilton, plant phone 7048, home phone Knoxville 7-1930.

Ride wanted or will join car pool from Outer Drive and Pennsylvania Ave., Oak Ridge, vicinity to Central Portal, H Shift. Polly Summers, plant phone 7408, home phone Oak Ridge 5-5043.

Want to join car pool from vicinity of East Knoxville to either North or Central Portal, straight day. M. P. Edwards, plant phone 7-8759, home phone Knoxville 2-3021.

Ride wanted from vicinity of Clarion Road, Oak Ridge, to Central or West Portal, straight day. Jean Schill, plant phone 7155, home phone Oak Ridge 5-2189.

Two or three car pool members wanted from West Haven section to any portal, straight day. J. R. Rutter, plant phone 7-8347, home phone 5-0929.

One rider wanted from Chapman Highway and Western Ave., Knoxville, to East, Biology, Central or West Portals, straight day. H. H. Reno, plant phone 7185, home phone Sevierville 453-375.

Riders wanted from Maryville to any portal, straight day. Walter Pugh, plant phone 7079, home phone Maryville YU 2-1443.

Riders wanted from Walker Blvd. section, Knoxville, via West Adair, to any portal, straight day. Harold Goldston, plant phone 7336, home phone MU 7-9635.

Car pool members wanted from Cumberland Estates and Pleasant Ridge Park, Knox County, to West Portal, straight day. K. D. Thompson, plant phone 7541, home phone Knoxville 8-8149.

Ride wanted or will join car pool from Meadow Road, Oak Ridge, to Central Portal, straight day. Frances Loving, plant phone 7-8555, home phone Oak Ridge 5-5576.

Ride wanted from East Beaver Creek Drive, Knox County, to West Portal, straight day. George Holbert, plant phone 7756, home phone Knoxville WH 7-7061.

Ride wanted from Ashland Lane and Alger Road, Oak Ridge, to West or Central Portal, straight day. Joann Baker, plant phone 7-8330, home phone Oak Ridge 2-1674.

Ride wanted or will join car pool from 202 West Woodrow, Fountain City, to Bear Creek Portal, straight day. W. L. White, plant phone 7-8846, home phone Knoxville MY 1-9690.

Ride wanted from Holston Hills and Burlington Areas, Knoxville, to East Portal, straight day. Betty Thompson, plant phone 7258, home phone Knoxville 4-1383.

Ride wanted or will join car pool from Cumberland Estates, Knox County, to Central Portal, straight day. Charles E. Roberts, plant phone 7310, home phone Knoxville 8-8868.

Ride wanted from 114 Vandavia Road, Oak Ridge, to Bear Creek Portal, straight day. Bernice Price, plant phone 7351, home phone Oak Ridge 5-5014.

## Chemicals, Olefins Issue Booklet On Firm Activities

The Union Carbide Chemicals and the UCC Olefins Company have issued a joint booklet describing the major functions and facilities of the two concerns. In colorful illustrated sections entitled "Carbide in West Virginia" and "Carbide in Texas," plants in both states are discussed, as well as the educational and recreational facilities available. Research and development departments of both companies, their engineering, design and construction groups also are described in detail.